

PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet _____ of _____

Application Number: 09/219,478

Filing Date: December 22, 1998

First Named Inventor: Nichols

Group Art Unit: 2122

Examiner Name: Ingberg

Attorney Docket Number: 05222.00046

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
		US-4,822,013	11/11/1996	Cherchio	
		US-4,874,784	10/17/1998	Clancey	
		US-4,981,786	01/02/1990	Darr, et al.	
		US-4,931,860	06/05/1990	Iste, et al.	
		US-4,964,077	10/16/1990	Elsen, et al.	
		US-4,977,528	12/11/1990	Gregg, et al.	
		US-5,002,491	03/26/1991	Abrahamson, et al.	
		US-5,170,464	12/08/1992	Hayes, et al.	
		US-5,189,402	02/23/1993	Naimark, et al.	
		US-5,208,745	05/04/1993	Quenten, et al.	
		US-5,208,898	05/04/1993	Funabashi, et al.	
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		US-5,259,768	11/09/1993	Seck, et al.	
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		US-5,311,422	05/10/1994	Loftin, et al.	
		US-5,317,888	05/31/1994	Watson, et al.	
		US-5,326,270	07/06/1994	Ostby, et al.	
		US-5,369,701	10/25/1994	Chiang, et al.	
		US-5,372,507	12/13/1994	Goleh	

FOREIGN PATENT DOCUMENTS					
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		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)			
		EPO 0 689 132 A2	12/27/95	Laffra	
		EP 0 710 942 A2	05/08/98	Siefert	
		EP 0 710 942 A2	05/08/98	Siefert	
		EP 0 798 655 A2	10/01/97	Jervis, et al.	
		WO 00/04478	01/27/00	Jonsson	
		WO 97/44766	11/27/97	Cook	
		WO 98/03953	01/29/98	Simmons	
		WO 98/25251	06/11/98	Ho	
		WO 98/32109	07/23/98	De Lange	

Examiner Signature	<i>[Signature]</i>	Date Considered	30 AUG 05
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³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 18 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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Application Number: 09/219,478

Filing Date: December 22, 1998

First Named Inventor: Nichols

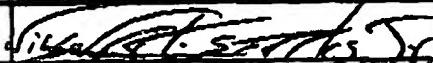
Group Art Unit: 2122

Examiner Name: Ingberg

Attorney Docket Number: 05222.00046

Sheet _____ of _____

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
(WJ)		"Evaluating the effectiveness of feedback in SQL-tutor", IEEE, proc. Int. workshop IWALT, pp 143-144	
		"Automated Exercise Progression in Simulation-Based Training," IEEE Trans. On Systems, Man, and Cybernetics, Vol. 24(6), pp. 863-74, June 1994	
		"ACM Transactions on Information Systems," 1988 at www.acm.org/pubs/tpo/Abstracts/tols/69288.html	
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		"A Special Section – Goal Based Scenarios: A New Approach to Professional Education: Reengineering Education at Andersen Consulting," Educational Technology, Nov.-Dec. 1994	
		"Goal-Based Scenarios and the Problem of Situated Learning: A Commentary on Andersen Consulting's Design of Goal-Based Scenarios," Educational Technology, Nov.-Dec. 1994	
		"DDD—A Free Graphical Front-End for UNIX Debuggers," Jan. 1998, ACM Sigplan Notices, Vol. 31, No. 1, pp. 22-27	
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(JL)		"Developing a Design System into an Intelligent Tutoring System," Int'l J. Engr. Educ., Vol. 13(5), pp.341-46, Dec. 1997	
		"CAPTOR a model for delivering web based intelligent tutoring system technology", IEEE Proc. DASC vol. 2, pp 5.C.1-5	

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Application Number : 09/219,478

Filing Date: December 22, 1993

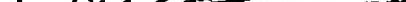
Filing Date: December 2, 1942
First Named Inventor: Nichols

First Ranked Invited
Group Art Unit 2122

Group All Stat 212

Attorney Docket Number: 05222.00046

U.S. PATENT DOCUMENTS					
Examiner Initials * <i>(WJ)</i>	Cite No. <i>(1)</i>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
	US-6,395,243		03/07/1995	Lubin, et al.	
	US-6,441,415		06/15/1995	Lee, et al.	
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	US-5,644,727		07/01/1997	Atkins	
	US-5,673,369		09/30/1997	Kim	
	US-5,680,496		11/25/1997	Kennedy	
	US-5,696,895		12/09/1997	Hekmatpour	
	US-5,701,400		12/23/1997	Amado	
	US-5,720,007		02/17/1998	Hekmatpour	
	US-5,727,161		03/10/1998	Purcell, Jr.	

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⁸ See Kindle Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04.

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Application Number : 09/219,478

Filing Date: December 22, 1998

First Named Inventor: Nichols

Group Art Unit: 2122

Examiner Name: Ingberg

Attorney Docket Number: 05222.00046

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
(JW)		"Bridging the Virtual and the Physical: The InterSim as a Collaborative Support Interface." Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 558-559, Dec. 1997	
		"Task-Oriented Learning on the Web"; Innovations in Education and Training International, Vol. 36, No. 1, Feb. 1999	
		"Applications of BrainMaker Neural Network to stocks, business, medical, manufacturing" at www.calci.com/Applications.htm	
		"KBLPS Overview" at www.cgi.com/CGIWEB/KBLPS/overindex4.html	
		"Smartlaw: adapting classic expert system techniques for the legal research domain", ACM pp 133-141	
		"Interactive Multimedia Instructs the Individual." Oct. 1994, Occupational Health & Safety Vol. 63, No. 10, pp. 144-145	
		"Practical methods for automatically generating typed links", ACM Hypertext, pp 31-41	
		"Popular Theory Supporting the Use of Computer Simulation for Experiential Learning." http://www.centurionsys.com/htc157.html , Aug. 1997	
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		"Teaching Real-World Analysis Skills for Goal-Based Scenario," pp. 68-74	

Examiner Signature

*William J. Scott*Date
Considered

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		Number - Kind Code ² (if known)			
(JG)		US-5,727,950	03/17/1998	Cook, et al.	
		US-5,745,652	04/28/1998	Bigus	
		US-5,772,448	06/30/1998	Rosen	
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		US-5,788,508	08/04/1998	Lee, et al.	
		US-5,791,907	08/11/1998	Ranshaw, et al.	
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		US-6,789,292	08/25/1998	Hekmatpour	
		US-5,808,056	09/08/1998	Hekmatpour	
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		US-5,836,683	11/10/1998	Corella, et al.	
		US-5,888,575	02/08/1999	Kuzzeveld	
		US-5,870,769	02/09/1999	Hekmatpour	
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		US-5,883,123	04/06/1999	Tuhenga	
		US-5,911,581	06/15/1999	Knight Jeremy, et al.	

Examiner Signature **Date Considered** **30 AUG 95**

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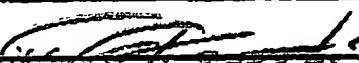
First Named Inventor: Nichols

Group Art Unit: 2122

Examiner Name: Ingberg

Attorney Docket Number: 06222.00048

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Examiner Initials *	Cite No. ¹	T ²
(WE)	"Artificial Intelligence and Mathematics Education" at http://www.rand.org/hot/mcarthur/Papers/ated.html	
	"The Roles of Artificial Intelligence in Education: Current Progress and Future Prospects" at http://www.nib.unicamp.br/recursos...education/intelligent-tutoring.html	
	"WITS: A Reusable Architecture for a VR-Based ITS" at http://advlearn.lrc.pitt.edu/its-reach/papers/itam.html	
	"Brainmaker" at www.rpi.ec.on.ca/~echoecan/28-04.htm	
	"News for ESAP" at www.hops.wharton.upenn.edu/~esap/news.html	
	"Learning with Computers," May 1994, Accountancy Vol. 113, No. 1209, pp. 60-64	
	"User-Sensitive Multimedia Presentation System," March 1, 1996, Vol. 38, No. 2, pp. 83-94	
	"Microworlds and Simuworlds: Practice Fields for the Learning Organization," Spring 1996, Organizational Dynamics Vol. 24, No. 4, pp. 36-49	
(D)	"What are Intelligent Coaching Systems and Why are they (In)evitable?" IEEE Colloquium on Artificial Intelligence in Educational Software, pp. 2/1-2/5, June 1998	
	"Development of an Integrated Simulator and Real Time Plant Information System," Advances in Operational Safety of Nuclear Power Plants, Proceedings of an International Symposium 1998.	

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	US-6,015,348		01/08/2000	Lambright, et al.
	US-6,016,488		01/18/2000	Nichols
	US-6,016,730		01/25/2000	Nichols, et al.
	US-6,016,731		01/25/2000	Bertrand, et al.
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	US-6,023,691		02/08/2000	Bertrand et al.
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	US-6,028,366		02/15/2000	Lannert, et al.
	US-6,029,158		02/22/2000	Lannert, et al.
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	US-6,029,159		02/22/2000	Zorba, et al.
	US-6,032,141		02/29/2000	O'Connor, et al.
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	US-6,067,538		05/23/2000	Zorba, et al.
	US-6,073,127		06/06/2000	Lannert, et al.
	US-6,085,184		07/04/2000	Bertrand, et al.

Examiner Signature *Silvia L. S. (Kes)* **Date Considered** **30 AUG 05**

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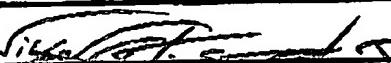
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(WE)		"A Goal-Centred Architecture for Intelligent Tutoring Systems," Proc. Of 7th World Conf. On Artificial Intelligence in Education, pp. 307-314, Aug. 1995	
		"Smart Avatars in JackMOO," Proceedings of the 1999 IEEE Conference on Virtual Reality, pp. 156-63	
		"Embedding an Intelligent Tutoring System In a Business Gaming-Simulation Environment," Proc. Of the 1994 Winter Simulation Conference, pp. 1399-1406, Dec. 1994	
		"Evaluating Intelligent Tutoring with Gaming Simulations," Proc. Of the 1996 Winter Simulation Conf., pp. 1378-83, Dec. 1996	
		"Persistent Issues in the Application of Virtual Environment Systems to Training," August 1998, Proceedings. Third Annual Symposium on Human Interaction with Complex Systems, IEEE, pp. 124-32.	
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		"Understanding Organizational Dynamics of IT-Enabled Change: A Multipedia Simulation Approach," Winter 1997/1998, Journal of Management Information Systems: JMIS, Vol. 14, No. 3, pp. 109-140.	
(JG)		"Intelligent Computer-Aided Instruction: A Survey Organized Around System Components," Jan. 1989, IEEE Inc., New York, Vol. 49, No. 1, pp. 40-57.	

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PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0851-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449 APTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Application Number : 08/219,479

Filing Date: December 22, 1923

First Named Inventor: Nichols

First Name: Inventor
Group Art Unit: 2122

Examiner Name: Ingberg

Attorney Docket Number: 05222.00046

Sheet _____ of _____

Examiner Signature *Silvana Saito* **Date Considered** *30 AUG 05*

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⁴Applicant's unique citation designation number (e.g., "A00001").
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Substitute for form 1449 A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Application Number : 08/219,478

Filing Date: December 22, 1998

First Named Inventor: Nichols

Group Art Unit: 2122

Examiner Name: Ingberg

Attorney Docket Number: 05222.00046

Sheet _____ of _____

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS		
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
(W)		"Conducting and Supporting a Goal-Based Scenario Learning Environment," Educational Technology, Nov.-Dec. 1994
		"Interface design issues for advising giving expert systems", Comm. Of the ACM, vol 30, no. 1, pp14-31
		"An Object-Oriented Architecture for Evolutional Development of Interactive Learning Environment with Coached Problem-Solving," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 592-64, Dec. 1997
		"Architecture of an Intelligent Tutoring System on the WWW," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 39-46 Dec. 1997
		"Socialized Collaborative Learning In Multimedia Virtual Worlds" URL: http://www.iscs.hus.edu.ag/labs/learning/lets/VRML.htm ; viewed Feb. 16, 1999
		Flexible Learning, Feb. 1998, Credit Union Management Vol. 21, No. 2, pp. 32-34
		"Teaching Through Case-Based Reasoning: An ITS Engine Applied to Business Communication," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 111-18 Dec. 1997
		"Train with Less Pain," Oct. 13, 1997, Informationweek No. 652, pp. 150-164
		"Virtual Learning: A Revolutionary Approach to Building a Highly Skilled Workforce," Autumn 1998, Personnel Psychology Vol. 51, No. 3, pp. 767-71
		"Intelligent Tutoring Systems: An Overview" at http://www.intellectbooks.com/authors/fawle/its.htm

Examiner Signature		Date Considered	30 Aug 05
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet _____ of _____

Application Number : 09/219,478

Filing Date: December 22, 1998

First Named Inventor: Nichols

Group Art Unit: 2122

Examiner Name: Ingberg

Attorney Docket Number: 05222.00046

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(WY)		"No More Boring CPE," July 1997, Accounting Technology, pp. 27-35	
		Computer Dictionary, 1997, pp. 264, 276, 383, 446, 462, 507.	
		"Rule-Based Programming with OPS5" at www.mkp.com/books_catalog/O-834513-51-6.asp	
		"From Computer-Assisted Instruction to Intelligent Tutoring Systems," J. Artificial Intelligence in Education, V. 2(3), pp. 39-60, Dec. 1997	
		"MUSE U.S. Patents" at www.muser.com/html/patents.html	
		"Distributed Intelligent Tutoring on the Web," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 482-89, Dec. 1997	
		"RadTutor: The Theoretical and Empirical Basis for the Design of a Mammography Interpretation Tutor," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 388-393 Dec. 1997	
		"Using the Wizard of Oz Technique to Prototype a Scenario-Based Simulation Tutor," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 458-65, Dec. 1997	
		"Using Planning Techniques to Provide Feedback in Interactive Learning Environments," Proc. Sixth Int'l Conf. On Tools with Artificial Intelligence, pp. 700-03, Nov. 1994	
		"An Electronic Infrastructure for a Virtual University," Communications of the ACM, Vol. 40, No. 9, Sep. 1997.	
		"Simulation Technology and Parallelism in Learning Environments" at http://www.tuwtwente.nl/pr/min/Book/chap1.htm	

Examiner Signature	<i>[Signature]</i>	Date Considered	30 Aug 05
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number : 09/219,478

Filing Date: December 22, 1998

First Named Inventor: Nichols

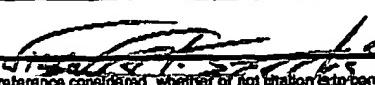
Group Art Unit: 2122

Examiner Name: Ingberg

Attorney Docket Number: 05222.00046

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(BWZ)		"Engines for Education" URL: http://www.lis.nwu.edu/~e_for_e/nodes/I-M-INTRO-ZOOMER-pg.htm ; viewed Feb. 15, 1999.	
		"FinPlan System" at www.mai.org.ru/FinPlan/	
		"Enhancing Simulation Education with Intelligent Tutoring Systems," Proc. Of the 1996 Winter Simulation Conf., pp. 875-80, Dec. 1996	
		"Computer Aided Instruction for Statistics: A Knowledge-Based Systems Approach," Int'l J. of Computers in Adult Education and Training, Vol. 5(1), pp. 3-14.	
		"Teaching with the Internet" 1998, JAI Press Inc., USA. Vol no. 3, pp 217-222	
		"Development of a Simulation-Based Intelligent Tutoring System for Assisting PID Control Learning," Jan. 1994, IEICE Transactions on Information and Systems, E77-D, No. 1, Tokyo Japan, pp. 103-17.	
		"Authoring Intelligent Tutoring Systems: An Analysis of the State of the Art" at http://www.cs.umass.edu/~tmurray/papers/ATSummary/AuthTools.html	
		Multimedia Training "Get Lemonade, Not a Lemon!" June 1997, Journal for Quality and Participation vol. 20, No. 3, pp. 22-28	
		"SMART Evaluation: Cognitive Diagnosis, Mastery Learning & Remediation," Proc. Of 7th World Conf. On Artificial Intelligence in Education, pp. 123-30, Aug. 1995	
(JL)		"Decision Pro3.0" at www.vanguardsw.com/	

Examiner Signature		Date Considered	30 AUG 05
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number : 09/219,478

Filing Date: December 22, 1998

First Named Inventor: Nichols

Group Art Unit: 2122

Examiner Name: Ingberg

Attorney Docket Number: 05222.00046

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(WZ)		"A Fuzzy Logic-Based Intelligent Tutoring System," Information Processing 92, Vol. II, pp. 68-72, Dec. 1992.	
		"The SimQuest Authoring System for Simulation-Based Discovery Learning," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 79-86, Dec. 1997	
		"A Browser-Based System to Support & Deliver DE," 28th Annual Frontiers in Education Conference, Conference Proceedings, Vol. 1, Nov. 4-7, 1998	
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		"Automate Your Business Plan" at www.business-plan.com/acreen2.html	
		"Kiplinger TaxCut Press Releases" at http://www.taxcut.com/taxcut/98press_releases/pr98_nowshipping.html	
		"TurboTax Deluxe Product Information" at http://www.intuit.com/turbotax/prodInfo/ttx.html	
		"Why Should the Teens Have All the Best Games? Management Skill with Oil, Health Housing Games," Computergram Int'l, June 176, 1996	
		"Template Software Business Simulator, Chapter 8, August 1997	
		"Template Software Workflow Simulator, Chapter 8, June 1998	
(Y)		"Goal-Based Scenarios", Technical Report # 36, Northwestern University, The Institute for the Learning Sciences, December 1992, pp. 1-30	

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Substitute for form 1449 APTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Application Number : 09/219,478

Filing Date: December 22, 1998

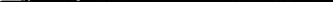
First Named Inventor: Nichols

Max Name Inventor
Group Art Unit: 2122

Group Art Crit. 2122
Examiner Name: Ingberg

Attorney Name: M. J. O'GORMAN
Attorney Docket Number: 05222.00046

Sheet _____ of _____

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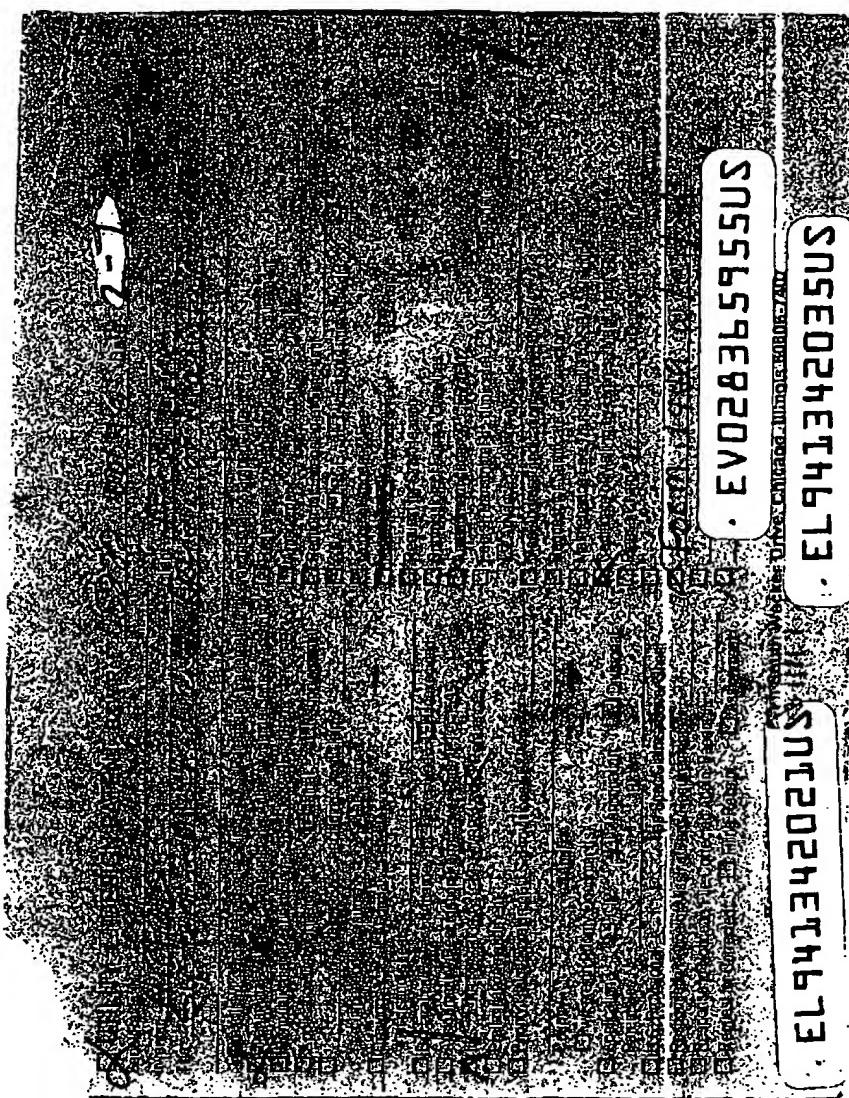
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